Journal of Clinical Pharmacy and Therapeutics

Editors
A. Li Wan Po and M. J. Kendall

Volume 18
1993

Blackwell Scientific Publications
OXFORD LONDON EDINBURGH BOSTON
MELBOURNE PARIS BERLIN VIENNA

© 1993 Blackwell Scientific Publications Ltd.

Authorization to photocopy items for internal or personal use, or the internal or use of specific clients, is granted by Blackwell Scientific Publications Ltd for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $10.00 per copy is paid directly to CCC, 27 Congress Street, Salem, MA 01970, U.S.A. The consent does not extend to other kinds of copying, such as copying for general distribution for advertising or promotional purposes, for creating new collective works for resale. Special requests should be addressed to the Editor. 0269–4727/93 $10.00

Published by Blackwell Scientific Publications Ltd
Osney Mead, Oxford OX2 0EL, U.K.
25 John St, London WC1N 2BL, U.K.
23 Ainslie Place, Edinburgh EH3 6AJ, U.K.
Suite 500, 5th Floor, 238 Main St, Boston, MA 02142, U.S.A.
54 University St, Carlton, Victoria 3053, Australia
Librairie Arnette SA, 2 rue Casimir-Delavigne, 75006 Paris, France
Blackwell Wissenschaft-Verlag GmbH, Dusseldorfer Str. 38, D-10707 Berlin, Germany
Blackwell MZV, Feldgasse 13, A-1238 Vienna, Austria

ISSN 0269-4727

Printed in Great Britain by Henry Ling Ltd,
at the Dorset Press, Dorchester, Dorset

CONTENTS

NUMBER 1

Commentary

1 Memories of a childhood pharmacy: *John H. Kilwein*

Review Articles

5 Paracetamol poisoning and the kidney: *A. F. Jones and J. A. Vale*

9 The treatment of elderly hypertensive patients: *M. J. Kendall, W. Y. Tse and A. Head*

15 Dry and photo-aged skin: manifestations and management: *R. McCallion and A. Li Wan Po*

33 Vitamin therapy in cystic fibrosis—a review and rationale: *S. A. Peters and C. J. Rolles*

Research and Reports

39 Effect of oral activated charcoal on propranolol pharmacokinetics following intravenous administration to rabbits: *M. A. Al-Meshal, Y. M. El-Sayed, A. A. Al-Angary and M. M. Al-Dardiri*

45 Drug-induced thrombocytosis: *J. L. Frye and D. F. Thompson*

49 Detection and determination of interfering 5-hydroxymethylfurfural in the analysis of caramel-coloured pharmaceutical syrups: *I. I. Hewala, S. M. Blaih, A. M. Zoweil and S. M. Onsi*

55 Estimation of population pharmacokinetics for carbamazepine in Malaysian patients using the OPT® computer program: *R. Ismail and Abd Fatah Abd. Rahman*

59 Treatment of nephrotic syndrome associated with idiopathic rapidly progressive glomerulonephritis and cyclosporin A: *F. Maduell, A. Sánchez-Alcaraz, F. Sigüenza, A. Caridad and G. Sangrador*

63 Digoxin pharmacokinetics in patients with high serum digoxin concentrations: *A. Martín-Suárez, J. M. Lanao, M. V. Calvo, P. Martín and A. Domínguez-Gil*

69 Stability of lorazepam diluted in bacteriostatic water for injection at two temperatures: *M. C. Nahata, R. S. Morosco and T. F. Hipple*

NUMBER 2

Commentary

73 Tensions in American health care: *J. H. Kilwein*

Review Articles

77 The current therapy of multiple sclerosis: *D. A. Francis*

85 Can anti-oxidants prevent ischaemic heart disease? *S. R. J. Maxwell*

Research and Reports

97 A stability-indicating first-derivative spectrophotometric assay of acetazolamide and its use in dissolution and kinetic studies: *E. F. Khamis, M. Abdel-Hamid, E. M. Hassan, A. Eshra and M. A. Elsayed*

103 Serum concentration and cardiovascular effects of salbutamol after oral and rectal administration in healthy volunteers: *N. Kurosawa, E. Owada, A. Kato, K. Bando, K. Ito and S. Kurosawa*

109 Analysis and bioequivalency study on two tablet formulations of co-trimoxazole: *M. Sheik Salem, H. N. Alkaysi, A. M. Gharaibeh, F. F. Amari, E. Sallam and M. S. Shubair*

115 Arterial and venous blood samplings in pharmacokinetic studies: vancomycin in rabbits: *W. G. Shin, M. G. Lee and M. H. Lee*

123 Physicochemical properties of parenteral fat emulsions containing 20% triglyceride; Intralipid and Ivelip: *C. Washington, F. Koosha and S. S. Davis*

133 Decontamination methods for cytotoxic drugs. 1. Use of a bioluminescent technique to monitor the inactivation of methotrexate with chlorine-based agents: *A. E. Wren, C. D. Melia, S. T. Garner and S. P. Denyer*

139 Pethidine pharmacokinetics in a heroin addict: a case report: *I. T. Houghton, C. S. T. Aun and K. Chan*

141 **Books Received for Review**

NUMBER 3

Commentary

143 Pharmaceutical care: desiderata: *P. C. Morley*

Review Articles

147 Amphotericin B and its delivery by liposomal and lipid formulations: *C. Gates and R. J. Pinney*

155 Advances in medical therapy for pituitary disease: treating patients with growth hormone excess and deficiency: *D. Jenkins and P. M. Stewart*

Research and Reports

165 Serum creatinine levels during cardiac surgery: absence of effect by aminoglycosides: *D. Bertram and R. Summers*

171 Pharmacokinetics of fusidic acid after a single dose of a new paediatric suspension: *P. Bourget, J.-F. Duhamel, H. Sørensen and R. Roiron*

179 Is there a need for improved pharmacy services to the operating theatre? *C. E. Branch, S. Bowden, D. E. Roberts, M. G. Spencer and D. K. Luscombe*

183 Medication maintenance of chronic schizophrenic out-patients by a psychiatric clinical pharmacist: 10-year follow-up study: *A. Dorevitch, R. Aronzon and L. Zilberman*

187 The use of evaporative cooling to extend the shelf life of reconstituted oral penicillin solutions: *C. Dzuda and D. J. Morton*

191 Plasma protein binding kinetics of valproic acid over a broad dosage range: therapeutic implications: *M. J. Gómez Bellver, M. J. García Sánchez, A. C. Alonso González, D. Santos Buelga and A. Domínguez-Gil*

199 Knowledge and compliance with medications in South East Asian refugees: *A. Lee, D. Buchwald and T. M. Hooton*

205 High-performance liquid chromatographic determination of perphenazine in plasma: *T. K. Mandal and L. N. Ace*

209 The effect of chloroquine on plasma albumin, bilirubin, amylase, alkaline phosphatase and blood urea in man: *J. I. Ogonor*

213 Comparison of the effectiveness of two oral phenytoin products and chronopharmacokinetics of phenytoin: *M. A. Petker and D. J. Morton*

219 The effect of some commercially available antihistamine and decongestant intra-nasal formulations on ciliary beat frequency: *X. Y. Su and A. Li Wan Po*

NUMBER 4

Commentary

223 Project HOPE: developing health-care policy for host countries: *M. W. Skolaut*

Review Articles

227 Advances in pharmacotherapy: recent developments in the treatment of epilepsy: *N. M. Graves and I. E. Leppik*

243 Advances in pharmacotherapy: depression in the elderly—issues and advances in treatment: *R. B. Stewart*

255 Drug-induced parotitis: *D. F. Thompson*

Research and Reports

259 A comparison of the β_1-selectivity of conventional metoprolol and metoprolol CR during exercise in healthy volunteers: *S. Akhlaghi, S. R. J. Maxwell, M. J. Kendall, B. Hughes and P. Greenhaff*

267 Dosage programming of phenobarbital in neonatal seizures: *A. C. Alonso Gonzalez, L. Ortega Valin, D. Santos Buelga, M. J. Garcia Sanchez, J. Santos Borbujo, L. Monzon Corral and A. Dominguez-Gil Hurle*

271 Relationship between slime production, antibiotic sensitivity and the phagetype of coagulase-negative staphylococci: *P. Boussard, A. Pithsy and M. J. Devleeschouwer*

275 Effects of α,β-blocker, arotinolol chloride, on 24-h blood pressure—difference between elderly and younger hypertensive patients: *I. Kuwajima, Y. Suzuki, K. Otsuka, H. Kawamura and K. Kuramoto*

281 Factors influencing pharmacists' preference for the legal classification of Rx-to-OTC switched drug products: *S. Madhavan*

291 The development of oral liquid dosage forms of metronidazole: *M. Mathew, V. Das Gupta and C. Bethea*

295 Effect of value-added utilities on prescription refill compliance and Medicaid health care expenditures—a study of patients with non-insulin-dependent diabetes mellitus: *T. L. Skaer, D. A. Sclar, D. J. Markowski and J. K. H. Won*

301 **Correspondence**

NUMBER 5

Guest Editorial

303 Paracetamol overdose—is there a role for liver transplantation: *D. Multimer*

Commentary

309 "Two minutes' difference" reproduced from *About Face: L. Walker*

Review Article

311 The role and treatment of *Helicobacter pylori* infection in peptic ulcer disease: a review of the relationship between *Helicobacter pylori* infection and peptic ulcer disease: *P. J. Fletcher and D. Q. M. Craig*

Research and Reports

317 The comfort level of pharmacists who counsel contraceptive patients: *J. F. Beal, T. L. Skaer, R. D. Day and M. J. Jinks*

325 High-performance liquid chromatographic method for the determination of nifedipine in plasma and its use in pharmacokinetic studies: *Y. M. El-Sayed, E. M. Niazy and S. H. Khidr*

331 HPLC method of analysis of cephadroxil and its application in bioavailability studies: *A. G. Eshra, E. M. Hassan and A. F. M. El-Walily*

337 Nedocromil sodium in the management of chronic bronchial infection: *M. Ip, S. Y. So, W. K. Lam and D. Shum*

343 Stability of quinine dihydrochloride in commonly used intravenous solutions: *S. Lerkiatbundit*

347 High-performance liquid chromatographic determination of nitrofurantoin in plasma: *T. K. Mandal and L. N. Ace*

351 Emulsion stability in total parenteral nutrition mixtures compounded from the fat emulsion 'Elolipid® 20%': *C. Washington, S. S. Davis and H. Kerbl*

357 The enzymology of the *in-vitro* oxidation of prolintane to oxoprolintane: *C. M. C. Whittlesea and J. W. Gorrod*

NUMBER 6

Commentary

365 Recommendations on education and training requirements for establishing a drug and toxicology information centre in a developing country: *O. M. J. Kasilo and C. F. B. Nhachi*

Commentary

371 A critique of the role of Alcoholics Anonymous in the professional treatment of alcohol abuse: *M. L. Kilwein*

Review Article

375 Advances in pharmacotherapy: treatment of HIV infection: *C. V. Fletcher and E. P. Acosta*

Research and Reports

389 Compatibility of diazepam (Valium®), chlorazepate dipotassium salt (Tranxene®) and midazolam hydrochloride (Hypnovel®) with Stedim 6®, a new multilayer polyethylene-lined film for infusion bags: a comparative study with polyvinyl chloride bags: *Ch. B. Airaudo, A. Gayte-Sorbier and Ch. Bianchi*

393 Pharmacokinetics of methotrexate after intravenous and intramuscular injection of methotrexate-bearing neutral liposomes to rats: *E. J. Bae, S. H. Lee, M. G. Lee, S. J. Hwang and Chong-K. Kim*

405 Calcium channel blockers and antioxidant levels: *G. Chen, R. Wilson, J. H. McKillop, W. E. Smith and J. J. Walker*

411 A comparative study of the population pharmacokinetics of gentamicin and amikacin in newborn patients: *M. Izquierdo, J. M. Lanao, L. Cerveró, N. V. Jiménez and A. Dominguez-Gil*

415 Dissolution testing of tablet and capsule dosage forms: *A. C. Mehta*

421 Pravastatin once daily in hypercholesterolaemia: a U.K. study: *J. M. Ritter, P. Sever and T. Brassfield*

427 **Author Index**